

mf

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,696	07/31/2003	Yu-Qi Wang		1612
23364 BACON & TH	7590 03/28/200 OMAS, PLLC	EXAMINER		
625 SLATERS	LANE	SHAPIRO, LEONID		
FOURTH FLOOR ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2629	
			· · ·	<u> </u>
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/28/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	
		10/630,696	WANG, YU-QI	
	Office Action Summary	Examiner	Art Unit	
	·	Leonid Shapiro	2629	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAnsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	<ul> <li>I. hely filed</li> <li>the mailing date of this communication.</li> <li>D (35 U.S.C. § 133).</li> </ul>	
Status				
2a)	Responsive to communication(s) filed on <u>12 Ja</u> This action is FINAL. 2b) This Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Dispositi	ion of Claims			
5)□ 6)⊠ 7)□	Claim(s) 1-4 and 7-9 is/are pending in the application of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-4, 7-9 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.		
Applicati	on Papers			
9) 10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).	
Priority u	under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
2) Notice	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	

Art Unit: 2629

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claim1-4,7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Brocklin et al. (US 6,552,713 B1) in view of Reay et al. (US 6,449,858 B1).

As to claim 1, Van Brocklin et al. teaches device (See Col. 1, Lines 5-8), comprising a housing (See Fig. 8, items 68, 82, Col. 5, Lines 46-56);

a first convex surface correspondent to claimed first convex lens (See Col. 3, Lines 14-15) located upon the housing such that an object may be placed on the first convex lens (See Fig. 12, item 30, from Col. 6, Line 65 to Col. 7, Line 15);

a light source within the housing arranged to project light on the first convex lens (See Fig. 12, items 26A-26B);

a sensor located within the housing for sensing light reflected from the object when the object is placed on the first convex lens (See Fig. 12, item 22);

a second convex lens located between the first convex lens and the sensor for focusing light reflected from the object onto the sensor (See Fig. 12, item 66);

wherein said first convex lens and said second convex lens are arranged such that when an object contacts the first convex lens, light projected by the light source and reflected by the object is clearly focused on and detected by the sensor

Application/Control Number: 10/630,696

Art Unit: 2629

through the second convex lens (See Fig. 12, item 30, 66, 22, from Col. 6, Line 65 to Col. 7, Line 15);

wherein when the object slides over the first convex lens, the sensor detects a new image position so as to generate a corresponding electronic signal for transmission to a computer system (See Fig. 12, items 16, 30, 22, Col. 1, Lines 5-8 and Col. 7, Lines 8-12).

Van Brocklin et al. does not disclose first convex lens having two convex surfaces.

Reay et al. teaches convex lens having two convex surfaces (fig. 1, items 28-29, col. 7, Lines 1-3).

It would have been obvious to one of ordinary skill in the art at the time of invention to incorporate teachings of Reay et al. into Brocklin et al. system in order to use in "mouse" (col. 2, lines 2-5 in Reay et al. reference) to shorten focal lens (col. 7, lines 2-3 in Reay et al. reference).

As to claim 2, Van Brocklin et al. teaches electronic signal is arranged to move a computer cursor (See Col. 1, Lines 5-8).

As to claim 3, Van Brocklin et al. teaches light beam evenly illuminating an entire surface of the first convex lens (See Fig. 12, items 26,30, Col. 7, Lines 3-8).

As to claim 4, Van Brocklin et al. teaches the pointing device is build-in to a housing of a computer (See Fig. 13, item 1302, Col. 5, Lines 3-5).

As to claim 7, Van Brocklin et al. teaches the first convex lens is a single convex lens and located upon the top of the housing (See Fig. 12, item 30, Col. 7, Lines 3-4).

Art Unit: 2629

As to claims 8, Van Brocklin et al. teaches the first convex lens is located upon in a front end of the housing (See Fig. 3, item 80, Col. 4, Lines 58-64).

2. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Van Brocklin et al. and Reay et al.

Van Brocklin et al. and Reay et al. teaches the first convex lens is located upon in a front end of the housing (See Fig. 3, item 80, Col. 4, Lines 58-64).

Van Brocklin et al. and Reay et al. do not disclose the first convex lens is located upon a lateral side of the housing.

It would have been obvious to one of ordinary skill in the art at the time of invention to locate the first convex lens upon a lateral side of the housing since Brocklin et al. teaches that optical pointing device to be removable and incorporated into external device (See Col. 4, Lines 7-10).

## Response to Arguments

3. Applicant's arguments with respect to claim 1-4,7-9 have been considered but are most in view of the new ground(s) of rejection.

## Telephone Inquire

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid Shapiro whose telephone number is 571-272-7683. The examiner can normally be reached on 8 a.m. to 5 p.m..

Application/Control Number: 10/630,696 Page 5

Art Unit: 2629

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LS 03.28.07

> RICHARD HJERPE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600